OOK

Depth 6	Contents 7	Reference to last Measurement 8

M. A. R. 57 (Rule 116) BR/30/28-4-17.

Measurement Book No. B

Serial No. IN and Final Bill

261948

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency ..... Executive Engineer, KRIDL

Date of commencement of work ..... D.O. Report : 29/04/2017

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Name of Work:	Improvements to CC Road at Naidu Layout in Ward No. 11 (Kurubarahalli) Vidyaranyapura Sub Division.					
	EN. Code:	30.00 Lakhs					
	Job code:	011-16-000028					
	Work order	BBMP/EE(BTD)/WO/137/16-17 D: 24/10/16					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1)	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 0.5m excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods etc complete						
	As per premeasurement Recorded vide page No: 261984 to 985 of this MB is					466.86 m³	
					@ Rs. 83.16/m³		38824=00
2)	Removing B.S. slab of drain and stacking etc complete						
	As per premeasurement Recorded vide page No: 261985 to 986 of this MB					87.75 m²	
					@ Rs. 63.72/m²		5591=00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
3)	Refixing stones slabs of dra complete	

OK

Depth 6	Contents 7	Reference to last Measurement 8
ing soil involving verage lift up to xcluded the f clock el		
Recorded 25 g	466.86 m³	
3.16 / m²		3882 h=00
ompleta		
corded to 988	87.75 m²	5591:00
Ch. 63.72 / m²		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261949

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
3)	Refixing stones slabs & drains canal pointing in CM (1:3) etc complete						
		1	17.00	-	1.35	22.95	
		1	20.00	-	1.35	27.00	
		1	12.00	-	1.35	16.20	
						66.15 m²	
				Adj Unskilled &		65.81 m²	
				Ch.	78.84 / m²		5188.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4) providing granite slab of selected quality roughly dressed and fixed in cement concrete (1:6) including fixing curing etc complete 7.5 cm thick etc complete.	1	17.00	-	1.35	22.95	
						alty limited to 21.9 m²	
						@ Rs. 663.12/m²	14549=00
	5) providing and laying in position plain cement concrete of mix 1:4:8 with opc cement @ 180 kgs with women and clown size cracked granite metal course aggregates @ 0.85 cm and fine aggregates @ 0.57 cum machine mixed concrete laid in layers not exceeding 15 cm thick well compacted in foundation and plinth including cost of all materials labours HOM & machine curing etc complete						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	As per Page
	6) providing and constru... masonry in foundation ... dressed in course not ... apart in each course inc... etc complete Culvert Naidu Layout

BOOK

s		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
ughly dressed and ing curing etc			
	1.35	22.95	
g limited to		21.9 sq.m	
63.12/m²			14549=00
ement concrete g own and down @ 0.85cm and concrete laid in ocked in foundation ours HOM &			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261950

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	As per pre measurement Page No: 261986 to 987	Revised vide & this MB is				182.00 m³	
					@ Rs. 5070.60/m³		922849=00
6)	providing and constructing granite / trap / balalt rigk stone masonry in foundation with cement mortar 1:6 stone hammered dressed in course not less than 20 cm high bond stone at 2m apart in each course including cost of materials labour, curing etc complete						
	Culvert Maiden Layout	2	7.70	0.60	1.15	10.63	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	cross Road	2	6.70	0.60	0.90	7.24	
	Near Tank	2	6.80	0.60	0.90	7.34	
	SSM wall	1	20.00	0.60	0.90	10.80	
						35.86 m³	
				@ Rs. 4135.32/m³			148293=00
	7) providing flush pointing to square rubble course or uncoursed stone masonry with cement mortar 1:3 20 mm deep after raking joints to depth of 20 mm nicely lining including cost of materials labours curing etc complete						
	pointing Naidu Hotel	2	7.70	-	1.15	17.71	
	cross Road	2	6.70	-	0.90	12.06	
	Near Tank	2	6.80	-	0.90	12.24	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	SSM wall
	8) providing and laying in 1:2:4 with cement @ 240 granite metal course agg @ 0.45 cu machine mix 15 cm thick wall comp including cost of all mate complete
	coping Naidu Layout

K

Depth 6	Contents 7	Reference to last Measurement 8
0.90	7.24	
0.90	7.34	
0.90	10.80	
	35.86 m³	
.32/m³		148293=00
rde or uncoursed		
deep after		
uality cost &		
1.15	17.71	
0.90	12.06	
0.90	12.24	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261951

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	SSM wall	1	20.00	-	0.90	18.00	
						59.76 m²	
				@ Rs. 99.36/m²			5938=00
	8) providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20 mm and down size crushed granite metal course aggregates @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed concrete laid in layers not exceeding 15 cm thick wall compacted in foundation, plinth and cills including cost of all materials labours TOM & machine curing etc complete						
	coping Maiden Layout	1	7.70	2.70	0.10	2.08	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	cross Road	1	6.70	1.80	0.10	1.21	
	Near Tank	1	6.80	1.20	0.10	0.82	
	SSM wall	1	20.00	0.60	0.10	1.20	
	Ramp	2	7.70	0.90	0.10	1.39	
						6.42 m³	
					@ Rs. 5490.72/m³		35360=00
9)	providing and removing centering shuttering, striking propping etc and removal of form work for vertical surface such as walls at any thickness including attached pilasters buttresses plinth and string courses cost of all materials labours etc complete						
	As per premeasurement Recorded vide page no: 261987 to 987/1 & this ORS i/c					339.00 m²	103978=00
					@ Rs. 306.72/m²		

M. A
M

Serial No. .....
Name of Work ..... Fro
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Numbe
1	2	3
10)	providing and laying cement size granite jelly & ready mixe laid in 15cm thick layers cu curing finishing with necessary scaffolding to withstand pumpin lifts etc complete (exclusive of c Ready mixed cement concrete M column footing main and secc cc drain bottom @ Muthumariyamma Temple	1 1 1 1
	culvert	

BOOK

s		Contents	Reference to last Measurement
dth	Depth		
	6	7	8
30	0.10	1.21	
20	0.10	0.82	
60	0.10	1.20	
30	0.10	1.39	
		6.44 m³	
. 5	490.72/m³		35360=00
ing. slushing			
vertical surface			
acked pillasters			
ll materials			
Reinforced			
11	& this	339.00 m²	
			103978=00

M. 306.72/m²

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

261952

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
10)	providing and laying cement concrete using 20mm and down size granite jelly & ready mixed concrete (RMC) for RCC works laid in 15cm thick layers and well compacted vibrating, curing finishing with neeliay cement mortar for works and scaffolding to with stand pumping & cement with all tools and lifts etc complete (exclusive of cost of steel and fabrication charges) Ready mixed cement concrete M-20 (1:1.5:3) for raft foundation column footing main and secondary beam etc complete.						
	CC drain bottom @ Muthumariyamma Temple	1	16.00	0.90	0.15	2.16	
		1	18.50	0.90	0.15	2.50	
		1	26.50	0.90	0.15	3.58	
	culvert	1	4.70	1.30	0.15	0.92	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Sidewall	1	3.10	1.30	0.15	0.60	
		2	16.00	0.15	0.45	2.16	
		2	18.50	0.15	0.65	2.50	
		2	26.50	0.15	0.55	4.37	
		2	4.70	0.30	0.60	1.69	
		2	3.10	0.30	0.60	1.12	
	covering slab	1	16.00	0.90	0.10	2.44	
		1	18.50	0.90	0.10	1.70	
		1	26.50	0.90	0.10	2.38	
		1	28.00	0.90	0.10	2.52	
		1	26.00	0.90	0.10	2.34	
		1	14.00	0.90	0.10	1.26	
	Ramp	2	6.70	0.90	0.10	1.21	
		2	6.80	0.90	0.10	1.22	

Serial No. .....

Name of Work ..... Fro

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Numbe
1	2	3
	1) Providing TMT steel rein straightening, cutting, bend lapping and/or welding wi wire and anchoring to the c reading complete as per dra not be measured and paid reading complete	2 2

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
	0.15	0.60	
	0.45	2.16	
	0.65	2.50	
	0.55	4.37	
	0.60	1.69	
	0.60	1.12	
	0.10	2.44	
	0.10	1.70	
	0.10	2.38	
	0.10	2.52	
	0.10	2.34	
	0.10	1.26	
	0.10	1.21	
	0.10	1.22	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

261953

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2	4.10	0.90	0.10	0.85	
		2	3.10	0.90	0.10	0.56	
						36.00 m³	
				Rate 6332.04/m³			227953=00
	1) Providing TMT Steel reinforcement for RCC work including straightening, cutting, bending, hooking placing in position lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) coming materials including all incidentals for making complete						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	As per previous measurement Recorded vide page No: 261988 & this MB i/s					2.16 Tonnes	
						@ Rs. 59327.91/Tonne	128148=00
12)	providing precast slab @ 250 mm thick including cost & all materials labours carriage transportation to colly and unloading etc complete						
	Naidu Lio	1	7.70	2.70	-	20.79	
	cross Road	1	6.70	1.80	-	12.06	
	Tank near	1	6.80	1.20	-	8.16	
	near Muthumariyamma	1	4.70	1.20	-	5.64	
	Temple	1	4.80	1.20	-	5.76	
						52.37 m²	268396=00
						@ Rs. 5125:00/m²	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
13)	cement concrete pav cement concrete pave Sub base with M3 gr 1051.2.2 M20 / M30 ab mixing to 25:383 maxim 25mm mixed in a conc and appropriate weigh in approved fixed sicle fixing @ 125 micron thi including leveling the for CC Road,

BOOK

ns		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
r Recorded & this		2.16 tonnes	
327.91/tonne			128148=00
including cost & ion to coly and			
.70	-	20.79	
80	-	12.06	
20	-	8.16	
20	-	5.64	
20	-	5.76	
		52.37 m²	268396=00
Rs. 5125:00/m²			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 261954

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
13)	cement concrete pavement, construction & unreinforced plain cement concrete pavement including curing as per design over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2 M20/M30 at 380/450 kgs per cum coarse aggregates confor ming to 28:383 maximum size of coarse aggregates not exceeding 25mm mixed in a concrete mixer & not less than 0.8 cum capacity and appropriate weigh batcher as per approved mix design laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film wedges steel plates including leveling the form work as per drawing) etc complete						
	C C Road 1	1	30.00	(4.75+4.7) / 2	0.125	17.72	
		1	30.00	(4.7+4.65) / 2	0.125	16.88	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	(4.3+4.75)/2	0.125	16.97	
		1	23.90	(4.75+4.7)/2	0.125	14.12	
	Road 2	1	9.50	(0.8+0.8)/2	0.125	1.01	
	Road 3	1	30.00	(2.6+2.7)/2	0.125	9.94	
		1	3.10	(2.7+2.6)/2	0.125	1.03	
	Road 4	1	14.20	(2.15+2.2)/2	0.125	3.88	
	Road 5	1	30.00	(4.0+4.8)/2	0.125	16.69	
		1	30.50	(4.8+4.6)/2	0.125	18.11	
		1	30.00	(4.0+4.2)/2	0.125	15.38	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	14) Vacuum De-watering with ... and compaction with ... clive including cost & ... vibratory power floater. ... specification	
	Road 1	

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
3+4.75)	0.125	16.97	
75+4.7)	0.125	14.12	
3+0.8)	0.125	1.01	
0+2.7)	0.125	9.94	
+2.6)	0.125	1.03	
5+2.2)	0.125	3.88	
+4.8)	0.125	16.69	
+4.6)	0.125	18.11	
+4.2)	0.125	15.38	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261955

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						131.38 m^2	
			@ Rs. 5287.68/m^3				694695=00
14)	Vaccum De-watering with vaccum pump and suction mat and compaction with skim floater dressed with floating cline including cost & generator HOM & machine screed vibrating power floater, blade and cline etc complete as per specification						
	Road 1	1	30.00	(4.75+4.7)	-	141.75	
		1	30.00	(4.7+4.3)	-	135.00	
		1	30.00	(4.3+4.75)	-	135.75	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	23.80	(4.75+4.7)/2	-	112.93	
	Road 2	1	9.50	(0.8+0.8)/2	-	8.08	
	Road 3	1	30.00	(2.6+2.7)/2	-	79.50	
		1	3.10	(2.7+2.6)/2	-	8.22	
	Road 4	1	14.20	(2.15+2.2)/2	-	30.89	
	Road 5	1	30.00	(4.0+4.9)/2	-	133.50	
		1	30.50	(4.9+4.6)/2	-	144.88	
		1	30.00	(4.0+4.2)/2	-	123.00	
						1051.00 m²	102157=00

@Rs. 97.20/m²

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
15)	Lead for disposal of rates by mechanical ... as complete

BOOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
5+4.72)	-	112.93	
0.88)	-	8.08	
+2.7)	-	79.50	
+2.6)	-	8.22	
+2.2)	-	30.88	
+4.9)	-	133.50	
+4.6)	-	144.88	
+4.2)	-	123.00	
		1051.00 m²	102157=00

97.20/m²

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261956

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
15)	Lead for disposal of debris shall be payable at convicle rates by mechanical means including loading and unloading etc complete						
				any wide Item No: 1		466.86 m³	
				@ Rs. 106.34/m³			49646=00
				Sub Total			2751565=00
				KRIDL charges @ 8%			220125=00
				TPI charges @ 1%.			27516=00
				Total			29,99,206=00

29/11

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate; Certified that the above works done is satisfactorily						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	113 INDEX. - CC Road - Culver - SSI4 Wo

OK

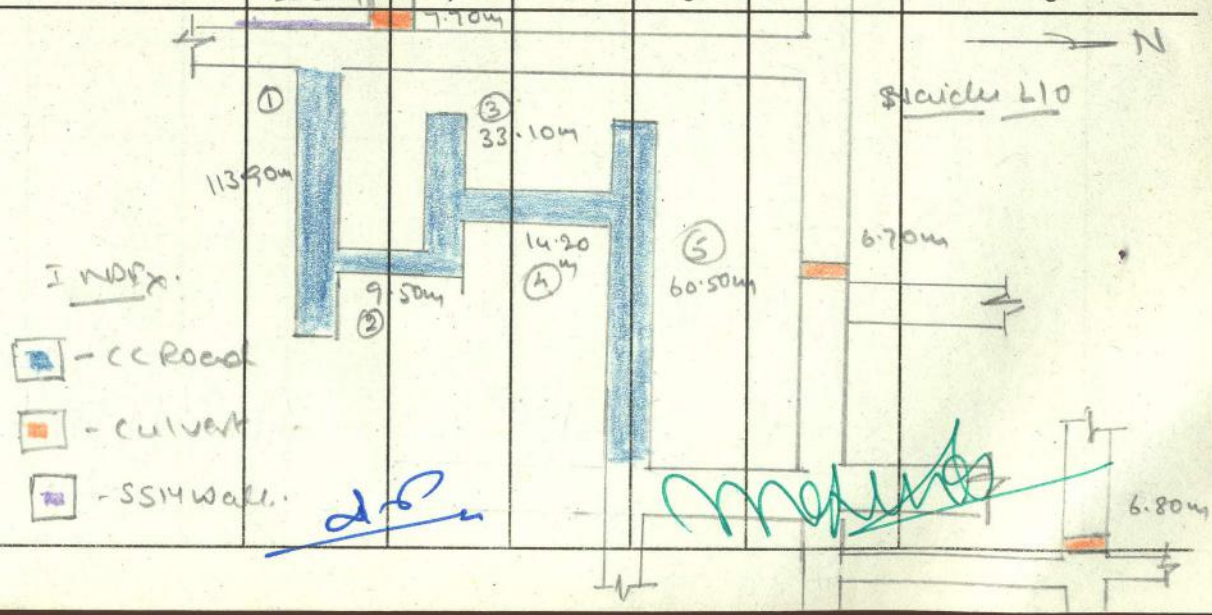
Depth 6	Contents 7	Reference to last Measurement 8
one is satisfactorily		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 261957

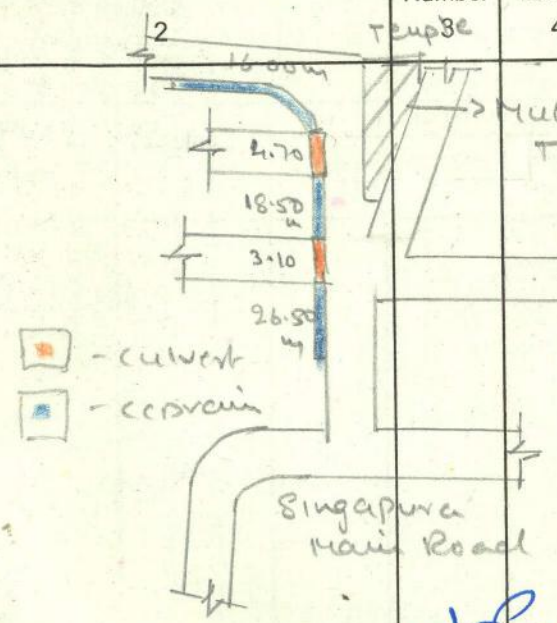
Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		20.80m	7.70m				



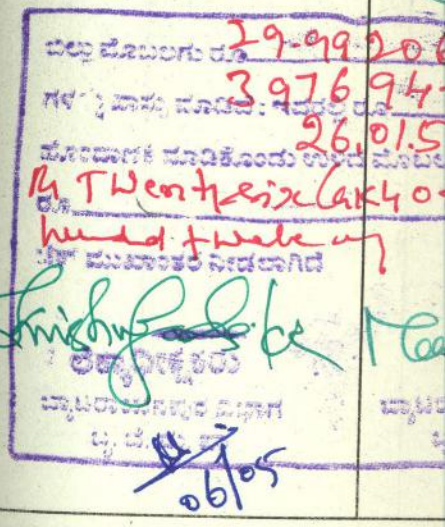
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2		4	5	6	7	8



Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	



BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8

M. A. R. 57 (Rule 116)
Measurement Book

No. B
261958

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	29.99.206-00 3976 94-00 26.01.512-00 By Twenty six Lak one thousand five hundred twelve only 06/05				Total	Rs. 29.99.206-00 IT - 59984-00 VAT - 119968-00 CC - 29992-00 CBF - 2999-00 LR - 32991-00 PSD 149960-00 Fire 1800-00 Adj. 397694-00 Chq 2601512-00	